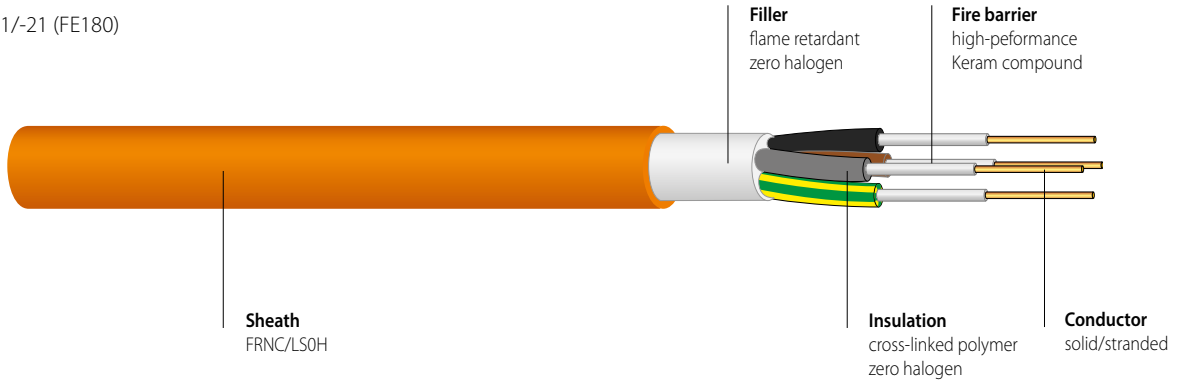


FE180

Safety cable 0.6/1kV, Keram

halogen-free, with improved fire characteristics
 EN 50200 (PH120)
 EN 50362
 IEC 60331-11/-21 (FE180)



PRODUCT INFORMATION



APPLICATION

Safety cables are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled. Suitable for indoor applications. For outdoor applications, protection must be provided against exposure to direct sunlight. The cable should only be laid directly in earth or water if a protective conduit is used. Permitted operating temperature at conductor of +90°C.

CONSTRUCTION






Conductor	Bare copper, solid or stranded, in accordance with IEC 60228 and EN 60228
Insulation	Special compound, HD 604 S1 part 5 H
Filler	HD 604 S1 part 5 H
Outer sheath	Compound, HD 604 S1 part 5 H
Core colours	CENELEC HD 308 S2
Sheath colour	Orange

ELECTRICAL PROPERTIES

Nominal voltage	0.6/1kV
Test voltage	3500V, 50Hz

GENERAL PROPERTIES

Minimum bending radius	during and permanent installation	15* x D (single-core cable) 12* x D (multicore cable) (D = outer diameter)
	permanent installation	*50% reduction if installation at 30°C and with a template
Operating temperature	permanent installation	-45°C to +90°C
	during installation	-5°C to +50°C

 Zero halogen, non corrosive gases	IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2, SEVTP20B/3C 3.4.4
 Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, SEVTP20B/3C 3.4.1.1
 Flame spread	IEC 60332-3-23/-24 Cat. B/C, EN 60332-3-23/-24 Cat. B/C, VDE 0482-332-3-23/24 Cat. B/C, SEVTP20B/3C 3.4.1.3
 Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, SEVTP20B/3C 3.4.3
 Circuit integrity (FE/PH)	EN 50200 (PH120), EN 50362, IEC 60331-11/-21 (180minutes), VDE 0472 part 814 (FE180), SEVTP20B/3C 3.4.2

PRODUCT INFORMATION

Article No.	No. of cores x cross section			Cu content kg/km	Total weight approx kg/km	Outer diameter approx mm	Fire load kWh/m
	n x mm ²						
171370	1	x	16 RM	154	227	9.8	0.34
171377	1	x	25 RM	240	329	11.3	0.43
171386	1	x	35 RM	336	428	12.4	0.48
171394	1	x	50 RM	480	565	13.9	0.58
171429	1	x	70 RM	672	783	15.7	0.68
170842	1	x	95 RM	912	1054	18.1	0.91
170845	1	x	120 RM	1152	1281	19.2	0.97
170850	1	x	150 RM	1440	1606	21.4	1.20
170855	1	x	185 RM	1776	1983	23.6	1.46
170858	1	x	240 RM	2304	2607	26.8	1.81
191118	2	x	1.5 RE	29	103	7.8	0.22
191119	2	x	2.5 RE	48	144	9.0	0.28
	2	x	4 RE	77	202	10.4	0.37
	2	x	6 RE	115	272	11.8	0.46
	2	x	10 RE	192	407	14.0	0.63
186952	2	x	16 RM	307	661	18.2	1.09
190404	2	x	25 RM	480	950	21.2	1.42
	2	x	35 RM	672	1219	23.4	1.66
	2	x	50 RM	960	1602	26.4	2.06
	2	x	70 RM	1334	2218	30.4	2.61
	2	x	95 RM	1824	2974	35.0	3.46
	2	x	120 RM	2304	3563	37.4	3.87
	2	x	150 RM	2880	4450	41.6	4.75
	2	x	185 RM	3552	5514	46.2	5.86
	2	x	240 RM	4608	7232	52.6	7.46
187180	3	x	1.5 RE	43	122	8.3	0.25
187184	3	x	2.5 RE	72	171	9.5	0.31
187187	3	x	4 RE	115	243	11.0	0.41
187189	3	x	6 RE	173	333	12.5	0.51
	3	x	10 RE	288	502	14.8	0.69
186953	3	x	16 RM	461	811	19.3	1.19
186955	3	x	25 RM	720	1184	22.6	1.56
186957	3	x	35 RM	1008	1529	24.9	1.80
186959	3	x	50 RM	1440	2026	28.2	2.24
186961	3	x	70 RM	2016	2844	32.7	2.88

RE = circular, solid conductor

RM = circular, stranded conductor

Additional dimensions available on request.

FE180

Safety cable 0.6/1kV, Keram

halogen-free, with improved fire characteristics

EN 50200 (PH120)

EN 50362

IEC 60331-11/-21 (FE180)

PRODUCT INFORMATION



Article No.	No. of cores x cross section		Cu content	Total weight	Outer diameter	Fire load
	n	x mm ²				
187182	4	x 1.5 RE	58	148	9.1	0.29
190502	4	x 2.5 RE	96	212	10.5	0.38
192352	4	x 4 RE	154	304	12.2	0.49
192353	4	x 6 RE	230	414	13.8	0.61
	4	x 10 RE	384	635	16.4	0.85
186967	4	x 16 RM	614	1009	21.1	1.40
186968	4	x 25 RM	960	1485	24.8	1.86
186969	4	x 35 RM	1344	1929	27.4	2.15
186970	4	x 50 RM	1920	2600	31.5	2.79
186971	4	x 70 RM	2688	3618	36.2	3.38
186972	4	x 95 RM	3648	4860	41.7	4.68
186973	4	x 120 RM	4608	5890	44.6	5.19
186974	4	x 150 RM	5760	7417	50.0	6.52
187548	4	x 185 RM	7104	9164	55.3	7.98
187077	4	x 240 RM	9216	12029	63.0	10.05
187183	5	x 1.5 RE	72	178	9.9	0.35
187186	5	x 2.5 RE	120	261	11.6	0.47
187188	5	x 4 RE	192	371	13.4	0.61
187190	5	x 6 RE	288	509	15.2	0.76
	5	x 10 RE	480	777	18.1	1.03
186975	5	x 16 RM	768	1223	23.1	1.67
186976	5	x 25 RM	1200	1806	27.2	2.22
186977	5	x 35 RM	1680	2384	30.5	2.66
186978	5	x 50 RM	2400	3187	34.8	3.41
186979	5	x 70 RM	3360	4440	40.0	4.26
190587	5	x 95 RM	4560	6032	46.6	5.89
	5	x 120 RM	5760	7290	49.7	6.49
	5	x 150 RM	7200	9145	55.5	8.08
	5	x 185 RM	8880	11284	61.3	9.84
	5	x 240 RM	11520	14632	69.8	12.44

RE = circular, solid conductor
 RM = circular, stranded conductor

Additional dimensions available on request.

PRODUCT INFORMATION

Article No.	No. of cores x cross section				Cu content kg/km	Total weight approx. kg/km	Outer diameter approx. mm	Fire load kWh/m
	n x mm ²							
186267	7	x	1.5	RE	101	222	10.8	0.41
186268	7	x	2.5	RE	168	322	12.5	0.53
	7	x	4	RE	269	464	14.5	0.7
187201	7	x	6	RE	403	652	16.7	0.89
	7	x	10	RE	672	1022	20.3	1.27
187108	8	x	1.5	RE	115	260	11.9	0.48
	8	x	2.5	RE	192	384	13.8	0.62
188345	10	x	1.5	RE	144	321	13.8	0.69
	10	x	2.5	RE	240	465	16.0	0.77
186269	12	x	1.5	RE	173	365	14.2	0.66
192479	12	x	2.5	RE	288	541	16.7	0.88
187109	21	x	1.5	RE	303	580	17.7	0.99
	21	x	2.5	RE	504	883	21.0	1.35
190412	27	x	1.5	RE	389	755	20.4	1.3
	27	x	2.5	RE	648	1122	23.9	1.7

RE = circular, solid conductor

RM = circular, stranded conductor

Additional dimensions available on request.